

## Harmonizing Toba Batak Local Wisdom with Tropicak Modern Architecture : Designing a Villa Resort in Pangururan

Dedek Putri Lumbanraja <sup>1</sup> , Beny OY Marpaung <sup>2</sup>

<sup>1</sup>Department of Architecture, Faculty of Engineering, Universitas Sumatera Utara, Medan

\*Corresponding Author : [dedekputri.lumbanraja@gmail.com](mailto:dedekputri.lumbanraja@gmail.com), [beny.marpaung@usu.ac.id](mailto:beny.marpaung@usu.ac.id)

### Abstract (English)

The design of a villa resort in Pangururan integrates Toba Batak local wisdom with modern tropical architecture to create a harmonious and sustainable environment, preserving cultural values while meeting contemporary design needs. They are ideal for families, couples, or groups seeking a personalized and immersive vacation experience. These accommodations are characterized by spacious layouts, private pools, and personalized services, such as butlers or chefs, which distinguish them from traditional hotels. The design and concept of villa resorts emphasize harmony with nature, often incorporating local architectural styles and serene landscapes.

### Article History

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### Key Words

villa resort, harmony, luxury.

## 1. Introduction

Integrating Toba Batak local wisdom into the design of tropical modern architecture for a villa resort in Pangururan not only enhances the aesthetic and functional qualities of the resort but also plays a vital role in preserving and promoting local cultural heritage.

Harmonization with nature and local wisdom in the development of resort villas not only contributes to environmental sustainability but also supports the preservation of Toba Batak culture. Through this approach, the villa resort is not only a resting place that offers comfort and complete facilities, but also a medium for education and appreciation of cultural values and local wisdom of the Toba Batak.

## 2. Method

Understanding approaches and methods in architectural design is essential in addressing a range of issues that together can help ensure the design outcome not only meets functional and aesthetic needs but is also responsive to the wider context of the social, cultural and technological environment.

The research utilizes data collection, descriptive documentation, and survey methods to analyze the site's existing conditions, local culture, and architectural practices, which serve as the foundation for the villa resort's design. The ways are as follows: (1) Data Collection Method, is carried out in order to see directly how the conditions of the site or design location and study the documentation or records taken during the survey. (2) Documentative Descriptive Method, is carried out by describing the area at a certain time obtained from the documentation. (3) Survey Method, is carried out to produce data related to the location of the design site and the existing conditions of the site by direct observation.

### 3. Result and Discussion

#### 3.1 Definition of Villa Resort

Villa is a house building outside the city which is usually located in the mountains or coastal areas and is a vacation home that is only used at certain times such as vacation time (KBBI, 2007). According to Rama (2016), a resort is a place of lodging that accommodates special facilities for leisure and sports activities such as tennis, golf, spa, tracking, and jogging. Thus, a resort is an inn built in a place with beautiful natural scenery. Usually, resorts are located around natural tourist sites such as beaches or mountains. Resort buildings are designed to offer a recreational and exotic feel. This is provided so that visitors who are on vacation can be motivated to do exciting things, both indoors and outdoors. In terms of architecture, resorts usually emphasize the artistic and traditional side.

Therefore, a villa resort is an area of accommodation facilities in which there is a collection of villa units with the main function of lodging equipped with supporting functions in the form of entertainment, recreation, relaxation and sports activities. Villa resorts are usually located in locations that have beautiful natural scenery and panoramas, and have cool air and are usually located in mountainous areas, lakes, beaches and others. All existing facilities, both main facilities and supporting facilities, are entirely managed in a management and organized in an area consisting of villa buildings and provide services such as five-star hotels.

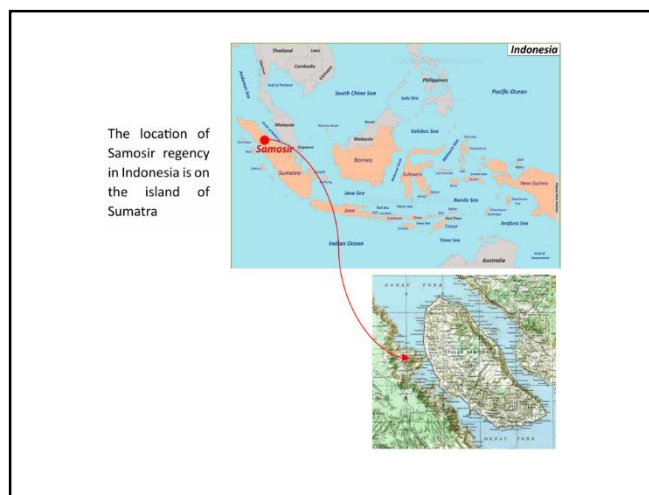
#### 3.2 Characteristics of Villa Resort

Resort villas have characteristics that distinguish them from ordinary villas, such as: (1) Security and privacy, resort villas are usually created with privacy in mind. This can be achieved through strategic landscaping, such as high fences or privacy walls, and careful placement of villas within the resort to ensure that each unit is secluded from the others. Security measures are also very important, with controlled access to ensure residents and authorized personnel can enter the area. (2) Spacious and flexible interiors, resort villa interiors are designed with luxury and comfort in mind, featuring spacious living areas that can accommodate families or groups of guests. These often include multiple bedrooms, spacious living areas, and fully equipped kitchens, and dining areas. The design is flexible to cater to different types of guests, from couples looking for a romantic getaway to families needing a functional space for children. (3) Seamless Inside-Out Living, a key feature of many resort villas is the seamless integration of indoor and outdoor spaces. Large windows and sliding doors open up to private terraces, gardens or pool areas, increasing living space and connecting guests with the natural environment. This design not only enhances the aesthetic appeal but also emphasizes the naturalness of lighting and ventilation. (4) Independence, to provide a homely experience, resort villas are often equipped with amenities that allow for a degree of independence. These include full kitchens with cooking facilities, laundry rooms, and even private garages. While resort services are always available, these features give guests the option to dine on-site or organize other daily activities independently if they choose. (5) Luxury Amenities, in line with the luxurious nature of resort living, villas are equipped with high-quality finishes. Bathrooms may have spa-like amenities such as jacuzzis or showers. Likewise, technology should also be integral, with high speed internet access, smart home systems, and entertainment systems generally included. (6) Specialized services, in addition to offering privacy and independence, resort villas also provide access to specialized services that enhance the comfort

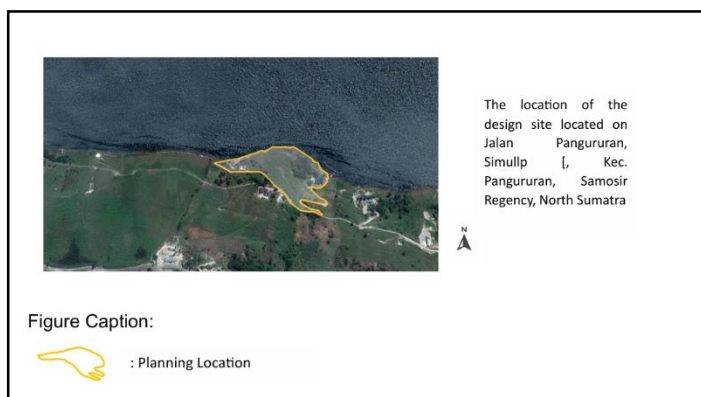
of the guest experience. These can include housekeeping services, concierge services, private chefs, and butler services. This aims to offer all the benefits of a resort while maintaining the comfort and exclusivity of a private residence.(7) Recreational facilities, residents of resort villas often have access to shared or private recreational facilities. These include swimming pools, fitness centers, spas, and sports facilities such as tennis courts. In addition, many resorts offer organized activities and events that should be tailored to the interests and needs of its guests. (8) Sustainability, modern resort villa designs incorporate sustainable practices. These can range from the use of renewable energy sources, such as solar panels, to sustainable building materials and systems that reduce water and energy consumption. The integration of green spaces and native landscaping also contributes to ecological balancing and enhances the overall aesthetics of the villa. The design of the resort villa integrates Toba Batak local wisdom by incorporating traditional carvings, using local materials, and creating landscapes that reflect the region's cultural identity, such as the planting of local spices and coffee plants.

### 3.3 Site Description

In the design project entitled "harmonization of architecture: integration of local wisdom Batak Toba in the design of modern tropical architecture Villa Resort in Pangururan" will be a means of recreation and become one of the tourism destinations in North Sumatra (Figure 3.1) The purpose of this design is to provide comfort for visitors who are on vacation, contribute to preserving the environment and support the preservation of Batak Toba culture. The design site is strategically located in Pangururan, Samosir Regency, surrounded by Lake Toba's scenic beauty, which provides a natural backdrop for the villa resort. The site's location influences key design elements such as the orientation of buildings and the integration of outdoor spaces.



**Figure 3.1. Maps of Kabupaten Samosir**  
Source : google



**Figure 3.2. Site Location Planning**  
Source : google earth

The limits on the design footprint are as follows:

Direction	Information
North	View of Lake Toba as the north direction of the design site location.
South	The road to the planning site is the south direction from the site
East	The green open space becomes eastward from the planning site
West	Green open space becomes westward from planning site

**Table 1: Limit of the site design**

The results are in the form of images with presentations that follow the theme and are also based on data obtained from literature studies For example, it can be seen in Figure 3.3 below.



**Figure 1. The Design**



## 4. Conclusion

Designing that pays attention to local socio-cultural aspects, In addition to considering climatic and environmental conditions, it is key in creating a harmonious environment. Integration of local wisdom Batak Toba in this tropical modern architecture allows the construction of villa resorts in Pangururan City which is not only aesthetic and convenient but also rich in cultural values, encouraging more interaction deeply between visitors and local heritage, and contribute to on socio-economic sustainability and environmental preservation and culture.

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